

RAW SEQUENCE LISTING

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Application Serial Number: 10/529,094
Source: IFWP
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IFWP

RAW SEQUENCE LISTING

DATE: 07/05/2006

PATENT APPLICATION: US/10/529,094

TIME: 14:15:50

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3 <110> APPLICANT: ORMANDY, CHRISTOPHER J.
 4 NAYLOR, MATTHEW JOHN
 6 <120> TITLE OF INVENTION: METHOD FOR INDUCING MAMMARY EPITHELIAL CELL
 7 DIFFERENTIATION
 9 <130> FILE REFERENCE: 026470-0401
 11 <140> CURRENT APPLICATION NUMBER: 10/529,094
 C--> 12 <141> CURRENT FILING DATE: 2005-03-24
 14 <150> PRIOR APPLICATION NUMBER: PCT/AU03/001266
 15 <151> PRIOR FILING DATE: 2003-09-25
 17 <150> PRIOR APPLICATION NUMBER: 60/413,978
 18 <151> PRIOR FILING DATE: 2002-09-25
 20 <160> NUMBER OF SEQ ID NOS: 31
 22 <170> SOFTWARE: PatentIn Ver. 3.3
 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 13
 26 <212> TYPE: PRT
 27 <213> ORGANISM: Artificial Sequence
 29 <220> FEATURE:
 30 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 31 peptide
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 35 1 5 10
 38 <210> SEQ ID NO: 2
 39 <211> LENGTH: 30
 40 <212> TYPE: PRT
 41 <213> ORGANISM: Homo sapiens
 43 <400> SEQUENCE: 2
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 45 1 5 10 15
 47 Gly Asn His Arg Ser Phe Ser Asp Lys Asn Gly Leu Thr Ser
 48 20 25 30
 51 <210> SEQ ID NO: 3
 52 <211> LENGTH: 29
 53 <212> TYPE: PRT
 54 <213> ORGANISM: Bos taurus
 56 <400> SEQUENCE: 3
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 58 1 5 10 15
 60 Asp Ser His Arg Ser Phe Gln Asp Lys His Gly Leu Ala
 61 20 25
 64 <210> SEQ ID NO: 4
 65 <211> LENGTH: 29

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66 <212> TYPE: PRT
67 <213> ORGANISM: Sus scrofa
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73 Asp Asn His Arg Ser Phe His Asp Lys Tyr Gly Leu Ala
74           20           25
77 <210> SEQ ID NO: 5
78 <211> LENGTH: 29
79 <212> TYPE: PRT
80 <213> ORGANISM: Rattus rattus
82 <400> SEQUENCE: 5
83 Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro His Ala Ile
84   1           5           10           15
86 Asp Asn His Arg Ser Phe Ser Asp Lys His Gly Leu Thr
87           20           25
90 <210> SEQ ID NO: 6
91 <211> LENGTH: 29
92 <212> TYPE: PRT
93 <213> ORGANISM: Artificial Sequence
95 <220> FEATURE:
96 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
97   peptide
99 <400> SEQUENCE: 6
100 Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro His Ala Val
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104           20           25
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108 <211> LENGTH: 123
109 <212> TYPE: PRT
110 <213> ORGANISM: Homo sapiens
112 <400> SEQUENCE: 7
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114   1           5           10           15
116 Ala Leu Ser Ala Ser Ala Gly Leu Trp Ser Pro Ala Lys Glu Lys Arg
117           20           25           30
119 Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro His Ala Val
120           35           40           45
122 Gly Asn His Arg Ser Phe Ser Asp Lys Asn Gly Leu Thr Ser Lys Arg
123           50           55           60
125 Glu Leu Arg Pro Glu Asp Asp Met Lys Pro Gly Ser Phe Asp Arg Ser
126           65           70           75           80
128 Ile Pro Glu Asn Asn Ile Met Arg Thr Ile Ile Glu Phe Leu Ser Phe
129           85           90           95
131 Leu His Leu Lys Glu Ala Gly Ala Leu Asp Arg Leu Leu Asp Leu Pro
132           100          105          110
134 Ala Ala Ala Ser Ser Glu Asp Ile Glu Arg Ser
135           115          120

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140 <212> TYPE: PRT
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147 Ala Leu Ser Ala Thr Leu Gly Leu Gly Ser Pro Val Lys Glu Lys Arg
148           20           25           30
150 Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro His Ala Leu
151           35           40           45
153 Asp Ser His Arg Ser Phe Gln Asp Lys His Gly Leu Ala Gly Lys Arg
154           50           55           60
156 Glu Leu Glu Pro Glu Asp Glu Ala Arg Pro Gly Ser Phe Asp Arg Pro
157   65           70           75           80
159 Leu Ala Glu Asn Asn Val Val Arg Thr Ile Ile Glu Phe Leu Thr Phe
160           85           90           95
162 Leu His Leu Lys Asp Ala Gly Ala Leu Glu Arg Leu Pro Ser Leu Pro
163           100          105          110
165 Thr Ala Glu Ser Ala Glu Asp Ala Glu Arg Ser
166           115          120
169 <210> SEQ ID NO: 9
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171 <212> TYPE: PRT
172 <213> ORGANISM: Sus scrofa
174 <400> SEQUENCE: 9
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178 Ala Leu Ser Ala Thr Leu Gly Leu Gly Ser Pro Val Lys Glu Lys Arg
179           20           25           30
181 Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro His Ala Ile
182           35           40           45
184 Asp Asn His Arg Ser Phe His Asp Lys Tyr Gly Leu Ala Gly Lys Arg
185           50           55           60
187 Glu Leu Glu Pro Glu Asp Glu Ala Arg Pro Gly Gly Phe Asp Arg Leu
188   65           70           75           80
190 Gln Ser Glu Asp Lys Ala Ile Arg Thr Ile Met Glu Phe Leu Ala Phe
191           85           90           95
193 Leu His Leu Lys Glu Ala Gly Ala Leu Gly Arg Leu Pro Gly Leu Pro
194           100          105          110
196 Ser Ala Ala Ser Ser Glu Asp Ala Gly Gln Ser
197           115          120
200 <210> SEQ ID NO: 10
201 <211> LENGTH: 116
202 <212> TYPE: PRT
203 <213> ORGANISM: Homo sapiens
205 <400> SEQUENCE: 10
206 Met Ala Pro Pro Ser Val Pro Leu Val Leu Leu Leu Val Leu Leu Leu
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209 Ser Leu Ala Glu Thr Pro Ala Ser Ala Pro Ala His Arg Gly Arg Gly
210           20           25           30
212 Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro Val Leu His
213           35           40           45
215 Leu Pro Gln Met Gly Asp Gln Asp Gly Lys Arg Glu Thr Ala Leu Glu
216           50           55           60
218 Ile Leu Asp Leu Trp Lys Ala Ile Asp Gly Leu Pro Tyr Ser His Pro
219           65           70           75           80
221 Pro Gln Pro Ser Lys Arg Asn Val Met Glu Thr Phe Ala Lys Pro Glu
222           85           90           95
224 Ile Gly Asp Leu Gly Met Leu Ser Met Lys Ile Pro Lys Glu Glu Asp
225           100          105          110
227 Val Leu Lys Ser
228           115
231 <210> SEQ ID NO: 11
232 <211> LENGTH: 60
233 <212> TYPE: PRT
234 <213> ORGANISM: Homo sapiens
236 <400> SEQUENCE: 11
237 Ala Pro Ala His Arg Gly Arg Gly Gly Trp Thr Leu Asn Ser Ala Gly
238   1           5           10           15
240 Tyr Leu Leu Gly Pro Val Leu His Leu Pro Gln Met Gly Asp Gln Asp
241           20           25           30
243 Gly Lys Arg Glu Thr Ala Leu Glu Ile Leu Asp Leu Trp Lys Ala Ile
244           35           40           45
246 Asp Gly Leu Pro Tyr Ser His Pro Pro Gln Pro Ser
247           50           55           60
250 <210> SEQ ID NO: 12
251 <211> LENGTH: 60
252 <212> TYPE: PRT
253 <213> ORGANISM: Sus scrofa
255 <400> SEQUENCE: 12
256 Ala Pro Val His Arg Gly Arg Gly Gly Trp Thr Leu Asn Ser Ala Gly
257   1           5           10           15
259 Tyr Leu Leu Gly Pro Val Leu His Pro Pro Ser Arg Ala Glu Gly Gly
260           20           25           30
262 Gly Lys Gly Lys Thr Ala Leu Gly Ile Leu Asp Leu Trp Lys Ala Ile
263           35           40           45
265 Asp Gly Leu Pro Tyr Pro Gln Ser Gln Leu Ala Ser
266           50           55           60
269 <210> SEQ ID NO: 13
270 <211> LENGTH: 60
271 <212> TYPE: PRT
272 <213> ORGANISM: Rattus rattus
274 <400> SEQUENCE: 13
275 Ala Pro Ala His Arg Gly Arg Gly Gly Trp Thr Leu Asn Ser Ala Gly
276   1           5           10           15
278 Tyr Leu Leu Gly Pro Val Leu His Leu Ser Ser Lys Ala Asn Gly Gly
279           20           25           30

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281 Arg Lys Thr Asp Ser Ala Leu Glu Ile Leu Asp Leu Trp Lys Ala Ile
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285           50           55           60
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289 <211> LENGTH: 765
290 <212> TYPE: DNA
291 <213> ORGANISM: Homo sapiens
293 <400> SEQUENCE: 14
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295 agcgccccag gccgccagag cccaccgcac ccggcccgac gcccgacct gccgcccaga 120
296 cccgccaccg caccggacc cgcagctcc gaaccgggc gcagccgcag ctcaagatgg 180
297 cccgaggcag cgccctcctt ctgcctccc tctcctcgc cgcggccctt tctgcctctg 240
298 cggggctctg gtcgcggcc aaggaaaaac gaggtggac cctgaacagc gcgggctacc 300
299 tgctgggccc acatgccgtt ggcaaccaca ggcatcag cgacaagaat ggcctcacca 360
300 gcaagcggga gctgcggccc gaagatgaca tgaaaccagg aagctttgac aggtccatac 420
301 ctgaaaacaa tatcatgcgc acaatcattg agtttctgtc tttcttgcac ctcaaagagg 480
302 ccggtgccct cgaccgcctc ctggatctcc ccgcccgcag ctcctcagaa gacatcgagc 540
303 ggtcctgaga gcctcctggg catgtttgtc tgtgtgctgt aacctgaagt caaaccttaa 600
304 gataatggat aatcttcggc caatttatgc agagtcagcc attcctgttc tctttgcctt 660
305 gatgttgtgt tgttatcatt taagattttt ttttttgggt aattattttg agtggcaaaa 720
306 taaagaatag caattaaaaa aaaaaaaaca aaaaaaaaaa aaaaaa 765
309 <210> SEQ ID NO: 15
310 <211> LENGTH: 675
311 <212> TYPE: DNA
312 <213> ORGANISM: Bos taurus
314 <400> SEQUENCE: 15
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316 tcgacggacg cgcggccccc ccgacacagg acctgcagac accccaggac ccgcagacat 120
317 cccccgacct tccgggcccc gctcaagatg cccagaggct ccgtcctgct gctcgcctcc 180
318 ctgctcctcg cagcggccct ttcagccacc ctgggcctcg ggtcaccggt gaaggagaag 240
319 agaggctgga ccctgaacag cgtctgggtac cttctcggac cacatgcgct cgacagccac 300
320 aggtcatttc aagacaagca tggcctcgcc ggcaagcggg aactcgagcc tgaagacgaa 360
321 gcccggccag gaagctttga cagaccactg gcggagaaca acgtcgtgcg cagcataatc 420
322 gagtttctga ctttcttgca tctcaaagac gccggcgccc tggagcgctt gccagtcctc 480
323 cccacagcag agtcgcgaga agacgcccag aggtcctgag cgggctcccg cgcgtcggtc 540
324 tccctgtgtc acgcgcagtc gtgctcccag gaggatgccc atcgcatggc aaccgccccca 600
325 tccccgtgc cctgatgctg tgtccgtacc atttcagggt tttccccttt ggtcataagt 660
326 ttcagtggca aaatt 675
329 <210> SEQ ID NO: 16
330 <211> LENGTH: 774
331 <212> TYPE: DNA
332 <213> ORGANISM: Sus scrofa
334 <400> SEQUENCE: 16
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336 cggtagagcg cctccagccc tgcccgaccc aaccggaccc gcgtccccgc cgacagccca 120
337 ggacccgctg gcacccgggg accccctggc atctcagacc cgcgcacccc cggggcccg 180
338 cgacacccca agaccaccg aactccggg acccgccgtc gctcaagatg cccagaggct 240
339 gcgcctcct gctggcctcc ctactcctcg cttcgccctt ttcagccacc ctggggctcg 300

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VERIFICATION SUMMARY

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